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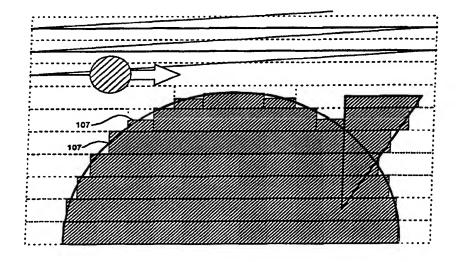
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(54) Title: DATA-CONVERSION METHOD FOR A MULTIBEAM LASER WRITER FOR VERY COMPLEX MICROLITHO-GRAPHIC PATTERNS



(57) Abstract

The invention relates to microlithography, in particular to the writing of photomasks for computer displays, microelectronic devices. and precision photoetching. It is also applicable to wafers, optical devices and a variety of electronic interconnection structures such as multichip modules. Other applications are possible, such as printing and graphics, as well as laser projection displays. In the present invention the data conversion is divided in two steps: first cutting the geometries in scan lines and simplifying them, and then finishing the conversion of the scan lines at the point of demand, i.e. in a beam processor in the driving electronics for each beam. The idea is to make as much as possible of the conversion at the latest possible point, i.e. at the beams. What is needed at an earlier stage is to separate the data for different beams and distribute them, and to simplify the data enough to make sure that the beam processors can always handle the data flow.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 98/00347

| A. CLASSIFICATION OF SUBJECT MATTER | | | | | | |
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| IPC6: G06K 15/12, G03F 7/20, G06T 11/20, H04N 1/04 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | |
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| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | | | | |
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| Furthe | er documents are listed in the continuation of Box | C. X See patent family annex | ζ. | | | |
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